

HDL BENEFITS

Patient #1 is applicant.

Applicant has excellent baseline lipid values. During Dec. 2002 applicant did a baseline lipid profile and then began taking 2 scoops of DLUWLF per day. Applicant swims every am for cardiovascular exercise. During Dec. a cold spell hit Florida and applicant was unable to swim for 10 days and no exercise was done. This is important as exercise can increase HDL and lack of exercise can decrease it. During Dec. applicant's diet greatly deteriorated due to gifts of high fat food given to him as gifts for the holiday season. Despite less exercise and a poor diet, applicant demonstrates a 5 point HDL rise on already excellent HDL baseline values. LDL cholesterol which should have gone up with decreased exercise and high fat diet, actually dropped 12 points from an already excellent baseline. This **demonstrates DLUWLF gave 15% drop in LDL and a 5 point increase in HDL (20% reduction in heart disease) despite less exercise and worse diet.** Especially impressive is the fact that these improvements occurred in the presence of excellent baseline LDL and HDL. Proof that of diminished exercise and worsening diet can be seen in the 6 point increase in triglycerides, which still remain at excellent levels.

Patient #2 (1543)

10/04/00 shows baseline lipid panel with LDL of 185 and HDL of 39 Trig. 138

10/07/02 shows lipid panel on Niaspan 1.5 grams and Zocor 80mg (max. dose). Pt had been on medications for more than two years and displays perfect results of HDL and Triglycerides, but LDL is still too high at 117

12/03/02 **off all medications** for 2 months and only on DLUWLF shows LDL has risen up to 146, (expected with stopping ZOCOR 80 and NIASPAN 1.5 grams), HDL is 61 and Trig. 63.

RESULTS: When comparing initial blood work off medication to 11/27/02 blood work off medications and only on DLUWLF, LDL has dropped 39 points (21%), **HDL has increased 22 points or 56%**, and Trig have decreased 75 points or 54%

Patient # 3 (928)

7/03/02 shows baseline lipid panel off all medications and was taking DLUWLF intermittently but missed 10 days out of the month. LDL 90, HDL 31, Trig 208

8/30/02 lipid panel repeated after nearly 2 months on only DLUWLF shows LDL 76, HDL 42, and Trig 92

RESULTS: LDL decreased 14 points (16%), **HDL increased by 11 points (35%)**, and Trig decreased by 116 or 56%

Patient #4 (1913)

11/30/2001 baseline lipid panel on no medications LDL 190, HDL 44, Trig 159

3/25/2002 lipid panel on only DLUWLF , LDL 128, HDL 53, Trig 63

RESULTS: LDL decreased 62 points or 33%, **HDL increased 9 points or 20% (36% reduction in heart disease)**, and Trig. decreased 96 points or 63%

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LABORATORY REPORT

Patient Name [REDACTED]		Patient ID/Hospital ID 1418		Room No.	Age 42	Sex M	Physician LEVINE, SCOTT
Page 1	Requisition No. 7159023	Accession No. TP868627L	Lab Ref. No. 7159023	Collection Date & Time 01/17/2002 10:44	Log-in Date 01/17/2002	Report Date & Time 01/18/2002 05:00	

Remarks

SS#: [REDACTED]

Report Status	FINAL	Test	Result		Units	Reference Range	Site Code
			In Range	Out of Range			
<u>LIPID PANEL</u>							
		TRIGLYCERIDES	TC 171	49	MG/DL	<150	TP
		CHOLESTEROL, TOTAL	LDL 72	171	MG/DL	<200	TP
		<u>HDL-CHOLESTEROL</u>	HDL 89	89	MG/DL	>OR=40	TP
		HDL CHOLESTEROL	Trig 49	72	MG/DL (CALC)	<130	TP
		LDL-CHOLESTEROL	TC/HDL 1.92	1.92	(CALC)	<4.98	TP
		CHOL/HDL C RATIO					

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LABORATORY REPORT

Patient Name L. [REDACTED] T		Patient ID/Hospital ID 1418		Room No.	Age 42	Sex M	Physician LEVINE, SCOTT
Page 1	Requisition No. 7158921	Accession No. TP306950L	Lab Ref No. 7158921	Collection Date & Time 12/05/2001 12:39		Log-in Date 12/05/2001	Report Date & Time 12/06/2001 05:00

SS#: [REDACTED]

Report Status	Test	Result		Units	Reference Range	Site Code
		In Range	Out of Range			
FINAL	LIPID PANEL					
	TRIGLYCERIDES					
	CHOLESTEROL, TOTAL			MG/DL	<150	TP
	HDL-CHOLESTEROL			MG/DL	<200	TP
	HDL CHOLESTEROL			MG/DL	>59	TP
	LDL-CHOLESTEROL			MG/DL (CALC)	<100	TP
	CHOL/HDL C RATIO			(CALC)	<4.98	

TC 177
 LDL 84
 HDL 84
 Trig 43
 TC/HDL 2.11

43
 177
 84
 84
 2.11

NMR LipoProfile®

LipoMed, Inc.
3009 New Bern Avenue
Raleigh, NC 27610
www.lipoprofile.com

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Patient Name

Specimen ID

Date Reported

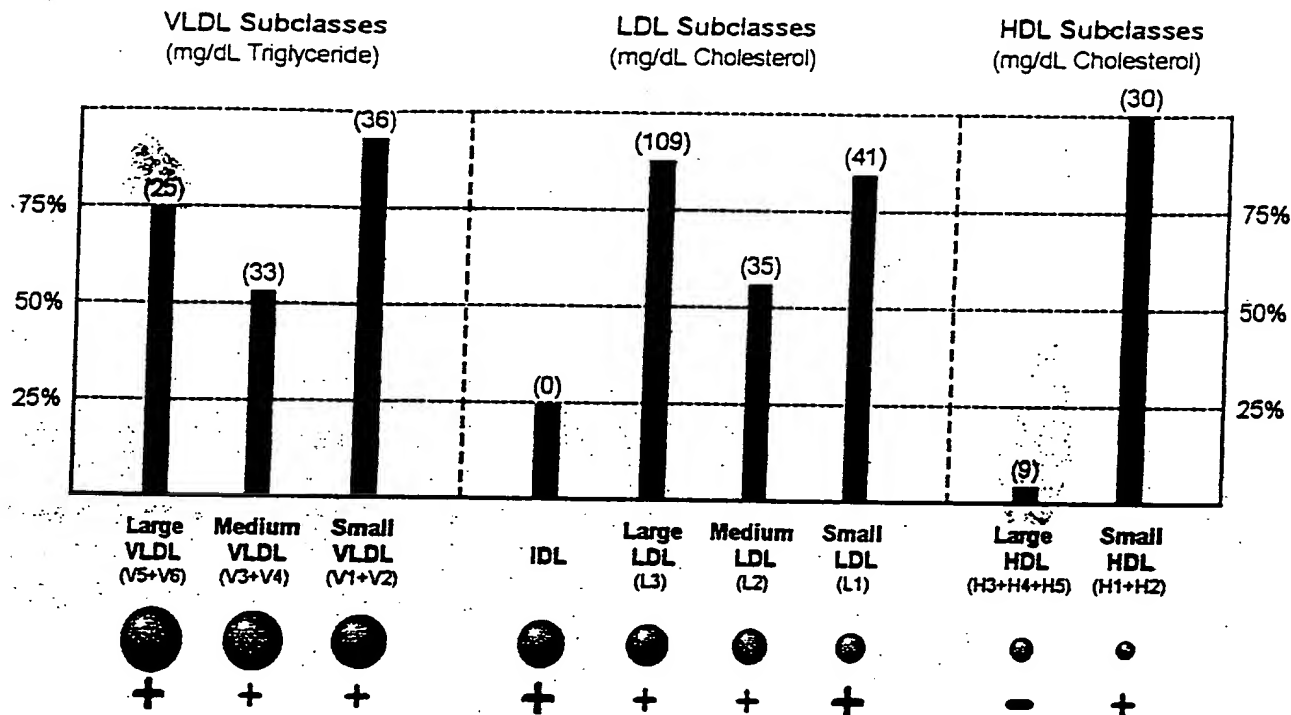
D [REDACTED] y

LM0171300

10-04-00

SUBCLASS LEVELS

Lipoprotein subclass levels (mg/dL) are given in parentheses above each bar.
The height of the bar gives the percent of the population* with equal or lower levels.



The plus and minus signs shown above summarize current medical understanding of the relations between lipoprotein subclass levels and heart disease risk. Plus signs signify a positive association with disease (higher levels = higher risk). Larger plus signs signify especially high-risk subclasses. The minus sign signifies a negative association with disease (higher levels = lower risk).

* Population percentile values are from NMR data obtained from analysis of 3,437 subjects in the Framingham Offspring Study.

NMR LIPID PANEL

	mg/dL	Current NCEP Risk Categories		
Total Cholesterol	251	Desirable less than 200	Borderline-High 200 - 239	High 240 or greater
LDL Cholesterol	185	Optimal* less than 100	Desirable 100 - 129	Borderline-High 130 - 160
HDL Cholesterol	39	Negative Risk Factor 60 or greater	Intermediate 59 - 35	Positive Risk Factor less than 35
Triglycerides	138	Normal less than 200	Borderline-High 200 - 399	High 400 - 1,000

NMR lipid panel values are determined by summation of directly-measured concentrations of VLDL, LDL and HDL subclasses after conversion to cholesterol or triglyceride units. NMR values agree well with those determined by standard chemical tests, but may differ if the patient's lipoprotein particles have less than the normal amount of cholesterol. In such cases, NMR values will likely give a better indication of CHD risk.

*Goal for secondary prevention (patients with established CHD or diabetes)

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Patient Name P [REDACTED]		Patient ID/Hospital ID 1543		Room No.	Age 37	Sex M	Physician LEVINE, SCOTT
Page 1	Requisition No. 7159558	Accession No. TP898851P	Lab Ref No. 7159558	Collection Date & Time 10/07/2002 11:30	Log-in Date 10/07/2002	Report Date & Time 10/08/2002 14:00	

Remarks

Niaspan 500 Tii
20001 80

Wt 201

SS#: [REDACTED]

Report Status	Test	Result	Units	Reference Range	Site Code
		In Range	Out of Range		
PATIENT DATE OF BIRTH: 06/15/1965					
LIPID PANEL					
	TRIGLYCERIDES	TC 194	89	MG/DL	<150 TP
	CHOLESTEROL, TOTAL	LDL 117	194	MG/DL	<200 TP
	HDL CHOLESTEROL	HDL 59	59	MG/DL	>OR=40 TP
	LDL-CHOLESTEROL	Trig 89	117	MG/DL (CALC)	<130 TP
	CHOL/HDL C RATIO	TC/HDL 3.3	3.3	(CALC)	<5.0 TP
IRON AND TOTAL IRON BINDING CAPACITY					
	IRON, TOTAL	81		MCG/DL	40-190 TP
	IRON BINDING CAPACITY	282		MCG/DL	250-400
	% SATURATION	29		% (CALC)	15-50
COMPREHENSIVE METABOLIC PANEL					
	GLUCOSE	98		MG/DL	65-109 TP
	UREA NITROGEN (BUN)	20		MG/DL	7-25
	CREATININE	1.0		MG/DL	0.5-1.4
	BUN/CREATININE RATIO	20		(CALC)	6-25
	SODIUM	138		MMOL/L	135-146
	POTASSIUM	4.3		MMOL/L	3.5-5.3
	CHLORIDE	102		MMOL/L	98-110
	CARBON DIOXIDE	26		MMOL/L	21-33
	CALCIUM	9.5		MG/DL	8.5-10.4
	PROTEIN, TOTAL	7.4		G/DL	6.0-8.3
	ALBUMIN	4.9		G/DL	3.7-5.1
	GLOBULIN	2.5		G/DL (CALC)	2.2-4.2
	ALBUMIN/GLOBULIN RATIO	2.0		(CALC)	0.8-2.0
	BILIRUBIN, TOTAL	0.5		MG/DL	0.2-1.5
	ALKALINE PHOSPHATASE	43		U/L	20-125
	AST	13		U/L	2-50
	ALT	15		U/L	2-60
CBC (INCLUDES DIFF/PLT)					
	WHITE BLOOD CELL COUNT	6.9		THOUS/MCL	3.8-10.8 TP
	RED BLOOD CELL COUNT	4.51		MILL/MCL	4.20-5.80
	HEMOGLOBIN	12.2 L		G/DL	13.2-17.1
	HEMATOCRIT	36.9 L		%	38.5-50.0
	MCV	81.7		FL	80.0-100.0
	MCH	27.0		PG	27.0-33.0
	MCHC	33.0		G/DL	32.0-36.0
	RDW	12.8		%	11.0-15.0
	PLATELET COUNT	402 H		THOUS/MCL	140-400
	ABSOLUTE NEUTROPHILS	4609		CELLS/MCL	1500-7800
	ABSOLUTE LYMPHOCYTES	1732		CELLS/MCL	850-3900
	ABSOLUTE MONOCYTES	380		CELLS/MCL	200-950
	ABSOLUTE EOSINOPHILS	145		CELLS/MCL	50-550
	ABSOLUTE BASOPHILS	35		CELLS/MCL	0-200

Handwritten notes:
 Evidence
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LABORATORY REPORT

Patient Name P [REDACTED]		Patient ID/Hospital ID 1543	Room No.	Age 37	Sex M	Physician LEVINE, SCOTT
Page 1	Requisition No. 7159659	Accession No. TP710988Q	Lab Ref No. 7159659	Collection Date & Time 11/27/2002 09:48	Log-in Date 11/27/2002	Report Date & Time 12/03/2002 05:00

Remarks
Drugs wt 189.5

SS#: [REDACTED]

Report Status	Test	Result	Units	Reference Range	Site Code
FINAL		In Range Out of Range			
PATIENT DATE OF BIRTH: 06/15/1965					
LIPID PANEL					
TRIGLYCERIDES	TC 220	63	MG/DL	<150	TP
CHOLESTEROL, TOTAL	LDL 146	220 H	MG/DL	<200	TP
HDL CHOLESTEROL	HDL 61	61	MG/DL	>OR=40	TP
LDL-CHOLESTEROL	Trig 63	146 H	MG/DL (CALC)	<130	TP
CHOL/HDL C RATIO	TC/HDL 3.6	3.6	(CALC)	<5.0	TP
35489SBX=*					
%38529SB*					
RED BLOOD CELL COUNT	4.72		MILL/MCL	4.20-5.80	TP
HEMOGLOBIN	12.8 L		G/DL	13.2-17.1	
HEMATOCRIT	38.2 L		%	38.5-50.0	
MCV	80.9		FL	80.0-100.0	
MCH	27.1		PG	27.0-33.0	
RDW	12.6		%	11.0-15.0	
%35489SBX*					
HEMOGLOBIN A1	98.0		%	>96.0	TP
FETAL HEMOGLOBIN	<2.0		%	<2.0	
HEMOGLOBIN A2 (QUANT)	2.0		%	1.5-3.5	
INTERPRETATION	NORMAL PHENOTYPE.				
HEMOGLOBINOPATHY EVALUATION EXAMINES SPECIMENS FOR COMMON VARIANT HEMOGLOBINS SUCH AS S AND C AS WELL AS MOST OTHER LESS COMMON VARIANT HEMOGLOBINS.					
COMPREHENSIVE METABOLIC PANEL					
GLUCOSE	89		MG/DL	65-109	TP
UREA NITROGEN (BUN)	21		MG/DL	7-25	
CREATININE	1.0		MG/DL	0.5-1.4	
BUN/CREATININE RATIO	21		(CALC)	6-25	
SODIUM	141		MMOL/L	135-146	
POTASSIUM	4.7		MMOL/L	3.5-5.3	
CHLORIDE	105		MMOL/L	98-110	
CARBON DIOXIDE	24		MMOL/L	21-33	
CALCIUM	9.6		MG/DL	8.5-10.4	
PROTEIN, TOTAL	7.2		G/DL	6.0-8.3	
ALBUMIN	4.7		G/DL	3.7-5.1	
GLOBULIN	2.5		G/DL (CALC)	2.2-4.2	
ALBUMIN/GLOBULIN RATIO	1.9		(CALC)	0.8-2.0	
BILIRUBIN, TOTAL	0.6		MG/DL	0.2-1.5	
ALKALINE PHOSPHATASE	43		U/L	20-125	
AST	25		U/L	2-50	
ALT	28		U/L	2-60	

Handwritten notes:
 TC 220
 LDL 146
 HDL 61
 Trig 63
 TC/HDL 3.6
 PT off 20080
 & only on DLWLF
 nl Hgb
 nl Iron studies 10/02
 nl B12 & Folate
 2 runners anemia

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LABORATORY REPORT

Patient Name: H [REDACTED] S		Patient ID/Hospital ID: 928	Room No.	Age: 43	Sex: M	Physician: LEVINE, SCOTT
Page: 1	Requisition No.: 7159376	Accession No.: TP4749960	Lab Ref. No.: 7159376	Collection Date & Time: 07/03/2002 12:56	Log-in Date: 07/03/2002	Report Date & Time: 07/04/2002 06:00
Remarks:						

SS#: [REDACTED]

Report Status	Test	Result	Units	Reference Range	Site Code
FINAL		In Range - Out of Range			
PATIENT DATE OF BIRTH: 07/30/1958					
LIPID PANEL					
TRIGLYCERIDES					
CHOLESTEROL, TOTAL	163	208 H	MG/DL	<150	TP
HDL CHOLESTEROL	31	31 L	MG/DL	<200	TP
LDL-CHOLESTEROL	90		MG/DL	>OR=40	TP
CHOL/HDL C RATIO	5.3	5.3 H	(CALC)	<130	TP
COMPREHENSIVE METABOLIC PANEL					
GLUCOSE	106		MG/DL	<5.0	TP
UREA NITROGEN (BUN)	16		MG/DL	65-109	
CREATININE	1.0		MG/DL	7-25	
BUN/CREATININE RATIO	16		(CALC)	0.5-1.4	
SODIUM	141		MMOL/L	6-25	
POTASSIUM	4.1		MMOL/L	135-146	
CHLORIDE	109		MMOL/L	3.5-5.3	
CARBON DIOXIDE	22		MMOL/L	98-110	
CALCIUM	9.7		MG/DL	21-33	
PROTEIN, TOTAL	7.1		G/DL	8.5-10.4	
ALBUMIN	4.3		G/DL	6.0-8.3	
GLOBULIN	2.8		G/DL (CALC)	3.5-4.9	
ALBUMIN/GLOBULIN RATIO	1.5		(CALC)	2.2-4.2	
BILIRUBIN, TOTAL	0.8		MG/DL	0.8-2.0	
ALKALINE PHOSPHATASE	94		U/L	0.2-1.5	
AST	32		U/L	20-125	
ALT	55		U/L	2-50	
CBC (INCLUDES DIFF/PLT)					
WHITE BLOOD CELL COUNT	9.3		THOUS/MCL	2-60	
RED BLOOD CELL COUNT	5.27		MILL/MCL	3.8-10.8	
HEMOGLOBIN	16.6		G/DL	4.20-5.80	
HEMATOCRIT	49.1		%	13.2-17.1	
MCV	93.1		FL	38.5-50.0	
MCH	31.6		PG	80.0-100.0	
MCHC	33.9		G/DL	27.0-33.0	
RDW	13.9		%	32.0-36.0	
PLATELET COUNT	252		THOUS/MCL	11.0-15.0	
ABSOLUTE NEUTROPHILS	5561		CELLS/MCL	140-400	
ABSOLUTE LYMPHOCYTES	2632		CELLS/MCL	1500-7800	
ABSOLUTE MONOCYTES			CELLS/MCL	850-3900	
ABSOLUTE EOSINOPHILS	121	967 H	CELLS/MCL	200-950	
ABSOLUTE BASOPHILS	19		CELLS/MCL	50-550	
NEUTROPHILS	59.8		%	0-200	
LYMPHOCYTES	28.3		%		
MONOCYTES	10.4		%		
EOSINOPHILS	1.3		%		
BASOPHILS	0.2		%		

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LABORATORY REPORT

Patient Name H [REDACTED] S		Patient ID/Hospital ID 928		Room No.	Age 44	Sex M	Physician LEVINE, SCOTT
Page 1	Requisition No. 7159476	Accession No. TP342201P	Lab Ref No. 7159476	Collection Date & Time 08/30/2002 09:08	Log-in Date 08/30/2002	Report Date & Time 08/31/2002 05:00	

Remarks

SS#: [REDACTED]

pheds

Report Status	FINAL	Test	Result		Units	Reference Range	Site Code	
			In Range	Out of Range				
PATIENT DATE OF BIRTH: 07/30/1958								
<u>LIPID PANEL</u>								
	TRIGLYCERIDES	TC 136	92	Spectacular		MG/DL	<150	TP
	CHOLESTEROL, TOTAL	LDL 76	136	Improvement		MG/DL	<200	TP
	HDL CHOLESTEROL	HDL 42	42	Cent		MG/DL	>OR=40	TP
	LDL-CHOLESTEROL	Trig 92	76			MG/DL (CALC)	<130	TP
	CHOL/HDL C RATIO	TC/HDL 3.2	3.2	DLUWLF		(CALC)	<5.0	TP

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LABORATORY REPORT

Patient Name D [REDACTED]		Patient ID/Hospital ID 1913		Room No.	Age 49	Sex M	Physician LEVINE, SCOTT
Page 1	Requisition No. 7158904	Accession No. TP197038L	Lab Ref No. 7158904	Collection Date & Time 11/28/2001 09:17		Log-in Date 11/28/2001	Report Date & Time 11/30/2001 05:00

SS#: [REDACTED]

Wt 215 NO meds

Report Status	Test	Result		Units	Reference Range	Site Code
		In Range	Out of Range			
FINAL	LIPID PANEL					
	TRIGLYCERIDES		159 H	MG/DL	<150	TP
	CHOLESTEROL, TOTAL		266 H	MG/DL	<200	TP
	HDL-CHOLESTEROL					
	HDL CHOLESTEROL		44	MG/DL	>59	TP
	LDL-CHOLESTEROL		190 H	MG/DL (CALC)	<100	TP
<p>LDL CHOLESTEROL (MG/DL) GOALS AND CUTPOINTS FOR THERAPEUTIC LIFESTYLE CHANGES (TLC) AND DRUG THERAPY IN DIFFERENT RISK CATEGORIES (AFTER EXCLUSION OR, IF APPROPRIATE, TREATMENT OF SECONDARY CAUSES OF LDL ELEVATION). FROM NCEP ATP-III REPORT, MAY 2001.</p>						
RISK CATEGORY	LDL GOAL	LDL TO INITIATE TLC	LDL TO CONSIDER DRUG THERAPY			

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Lipomed

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LABORATORY REPORT

Patient Name D [REDACTED] M		Patient ID/Hospital ID 1913		Room No.	Age 49	Sex M	Physician LEVINE, SCOTT
Page 1	Requisition No. 7159172	Accession No. TP914803M	Lab Ref No. 7159172	Collection Date & Time 03/25/2002 09:19	Log-In Date 03/25/2002	Report Date & Time 03/26/2002 05:00	

Remarks

SS#: [REDACTED]

W+180

No meds

Report Status	Test	Result		Units	Reference Range	Site Code
		In Range	Out of Range			
FINAL	PATIENT DATE OF BIRTH: 07/22/1952					
LIPID PANEL						
	TRIGLYCERIDES			MG/DL	<150	TP
	CHOLESTEROL, TOTAL			MG/DL	<200	TP
	HDL CHOLESTEROL			MG/DL	>OR=40	TP
	LDL-CHOLESTEROL			MG/DL (CALC)	<130	TP
<p>LDL CHOLESTEROL (MG/DL) GOALS AND CUTOPOINTS FOR THERAPEUTIC LIFESTYLE CHANGES (TLC) AND DRUG THERAPY IN DIFFERENT RISK CATEGORIES (AFTER EXCLUSION OR, IF APPROPRIATE, TREATMENT OF SECONDARY CAUSES OF LDL ELEVATION). FROM NCEP ATP-III REPORT, MAY 2001.</p> <p>RISK CATEGORY LDL GOAL LDL TO INITIATE LDL TO CONSIDER DRUG THERAPY</p>						

TC 194
LDL 128
HDL 53
Trig 63
TC/HDL 3.7

→ Excellent Improvement